

DEPARTMENT OF TRANSPORTATION
FEDERAL AVIATION ADMINISTRATION

P57GL
REVISION 10
McCAULEY
3AF32C(5--)
3AF34C(5--)
3AF36C(5--)
3AF37C(5--)
B3DF36C(5--)
December 7, 2004

TYPE CERTIFICATE DATA SHEET NO. P57GL

Propellers of models described herein conforming with this data sheet, which is part of Type Certificate No. P57GL and other approved data on file with the Federal Aviation Administration, meet the minimum standards for use in certificated aircraft in accordance with the pertinent aircraft data sheets and applicable portions of the Federal Aviation Regulations provided they are installed, operated, and maintained as prescribed by the approved manufacturer's manuals and other approved instructions.

Type Certificate Holder	McCauley Accessory Division 7751 East Pawnee Wichita, KS 67207
Type	Constant speed; hydraulic (see Notes 3 and 4)
Engine Shaft	Special flange 4.00 inch B.C.
Hub Material	Aluminum Alloy
Blade Material	Aluminum Alloy
No. of Blades	Three
Hub Models	3AF34C502, 3AF34C503, 3AF32C504, 3AF32C505, 3AF32C506, 3AF32C507, 3AF32C508, 3AF32C509, 3AF37C510 3AF32C511, 3AF32C512, 3AF36C514, 3AF32C515, 3AF37C516, 3AF32C521, 3AF32C522, 3AF32C523, 3AF32C524, 3AF36C525, B3DF36C526, B3DF36C527, and 3AF32C528.

Blades (See Note 2)	Maximum Continuous		Take-Off		Diameter Limits (See Note 2)	Approx. Max. Wt. Complete (For Ref. Only)
	HP	RPM	HP	RPM		
Hub Model 3AF34C502						
80H[X]-0 to 80H[X]-8	215	2575	215	2575	80" - 72" (-0 to -8)	76.0 Lbs.
Hub Model 3AF34C503						
L80H[X]-0 to L80H[X]-8	215	2575	215	2575	80" - 72" (-0 to -8)	76.0 Lbs.
Hub Models 3AF32C504, 3AF32C505, 3AF32C511, 3AF32C512, and 3AF32C528						
82NE[X]-2 to 82NE[X]-8	325	2700	325	2700	80" - 74" (-2 to -8)	70.0 Lbs. 75.8 Lbs.* 73.0 Lbs.**

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Blades (See Note 2)	Maximum <u>Continuous</u>		<u>Take-Off</u>		Diameter Limits (See Note 2)	Approx. Max. Wt. Complete (For Ref. Only)
	HP	RPM	HP	RPM		
<u>Hub Model 3AF32C506</u>						
82NE[X]-2 to 82NE[X]-10	250	2400	250	2400	80" - 72" (-2 to -10)	71.5 Lbs.
<u>Hub Model 3AF32C507</u>						
L82NE[X]-2 to L82NE[X]-10	250	2400	250	2400	80" - 72" (-2 to -10)	71.5 Lbs.
<u>Hub Model 3AF32C508</u>						
82NF[X]-2 to 82NF[X]-8	220	2800	220	2800	80" - 74" (-2 to -8)	69.5 Lbs.
<u>Hub Model 3AF32C509</u>						
L82NF[X]-2 to L82NF[X]-8	220	2800	220	2800	80" - 74" (-2 to -8)	69.5 Lbs.
<u>Hub Model 3AF37C510</u>						
90LF[X]-0 to 90LF[X]-10	375	2400	375	2400	90" - 80" (-0 to -10)	86.9 Lbs.
<u>Hub Model 3AF36C514 and 3AF36C525</u>						
80VMF[X]-0 to 80VMF[X]-6	350	2700	350	2700	80" - 74" (-0 to -6)	70.0 Lbs. 75.8 Lbs***.
<u>Hub Model 3AF32C515</u>						
82NL[X]-2 to 82NL[X]-8	350	2700	350	2700	80" - 74" (-2 to -8)	74.0 Lbs.
<u>Hub Model 3AF37C516</u>						
90LF[X]-0 to 90LF[X]-6	375	2275	375	2275	90" - 84" (-0 to -6)	86.9 Lbs.
<u>Hub Model 3AF32C521</u>						
82NL[X]-4 to 82NL[X]-10	350	2700	350	2700	78" - 72" (-4 to -10)	80.5 Lbs.
<u>Hub Model 3AF32C522</u>						
82NJ[X]-2 to 82NJ[X]-8	220	2800	220	2800	80" - 74" (-2 to -8)	69.5 Lbs.
<u>Hub Model 3AF32C523</u>						
L82NJ[X]-2 to L82NJ[X]-8	220	2800	220	2800	80" - 74" (-2 to -8)	69.5 Lbs.
<u>Hub Model 3AF32C524</u>						
90UM[X]-0 to 90UM[X]-8	375	2275	375	2275	90" - 74" (-0 to -16)	118.5 Lbs.

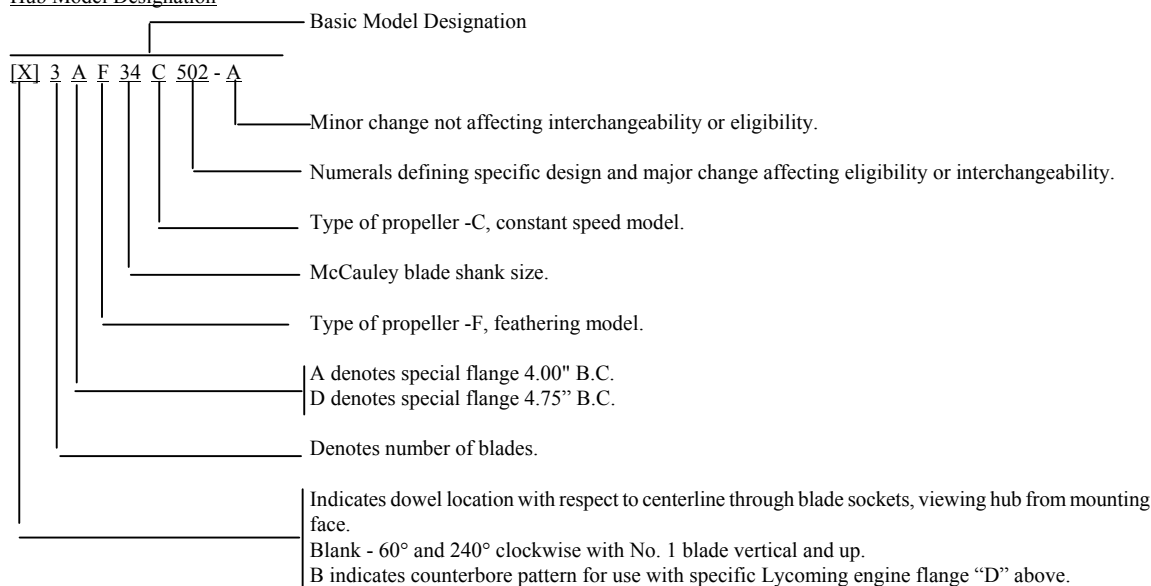
Blades (See Note 2)	Maximum Continuous		Take-Off		Diameter Limits (See Note 2)	Approx. Max. Wt. Complete (For Ref. Only)
	HP	RPM	HP	RPM		
<u>Hub Model B3DF36C526</u>						
80HJ[X]-0 to 80HJ[X]-8	350	2575	350	2575	80" - 72" (-0 to -8)	96.0 Lbs.
<u>Hub Model B3DF36C527</u>						
L80HJ[X]-0 to L80HJ[X]-8	350	2575	350	2575	80" - 72" (-0 to -8)	96.0 Lbs.

*Higher Weight applies to -C511 model only. **Higher Weight applies to -C528 model only. ***Higher Weight applies to -C514 model only.

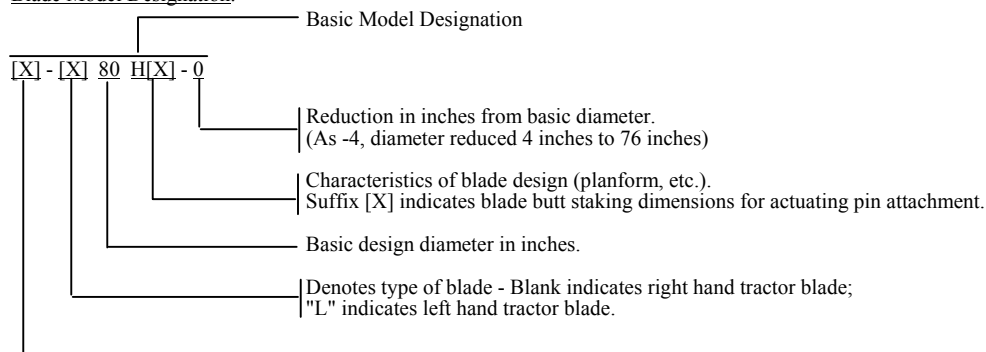
Certification Basis Type Certificate No. P57GL issued July 17, 1978, under Delegation Option Authorization Provisions of 14 CFR Part 21, Subpart J.
Date of application for Type Certificate, July 12, 1978.
Models 3AF34C502, 3AF34C503, 3AF32C504, 3AF32C505, 3AF32C508, 3AF32C509:
14 CFR Part 35 including Amendments 35-1 through 35-4 (May 2, 1977) thereto.
Models 3AF32C506, 3AF32C507, 3AF32C511, 3AF32C512, 3AF36C514:
14 CFR Part 35 including Amendments 35-1 through 35-5 (October 14, 1980) thereto.
Models 3AF37C510, 3AF32C515, 3AF37C516, 3AF32C521, 3AF32C522, 3AF32C523, 3AF32C524, 3AF36C525,
B3DF36C526, B3DF36C527, 3AF32C528:
14 CFR Part 35 including Amendments 35-1 through 35-6 (August 18, 1990) thereto.

Production Basis Production Certificate No. 3

NOTE 1. Hub Model Designation



NOTE 2. Blade Model Designation



Minor change not affecting interchangeability or eligibility.

NOTE 3. Pitch Control. With the following governors:

McCauley Model DCF290D[X]/T[X]	Wt. 3.0 lbs.
McCauley Model DCFU290D[X]/T[X]	Wt. 3.0 lbs.
McCauley Model DCFS290D[X]/T[X]	Wt. 3.0 lbs.
McCauley Model DCFUS290D[X]/T[X]	Wt. 3.0 lbs.
Hartzell Model E-[X]-[X]	Wt. 4.5 lbs.
Hartzell Model E-[X]-[X]L	Wt. 4.5 lbs.
Hartzell Model U-[X]-[X]	Wt. 4.5 lbs.
Hartzell Model U-[X]-[X]L	Wt. 4.5 lbs.
Woodward Model [X]2106[X][X]	Wt. 3.5 lbs.

NOTE 4. Feathering. With full feathering control installed in accordance with the propeller manufacturer's instructions. Controls may include unfeathering, synchronizing or synchrophasing features.

NOTE 5. Not applicable.

NOTE 6. Not applicable.

NOTE 7. Accessories

a. Propeller Anti-icing/Deicing

- (1) Model 80HA, L80HA, 82NFA, and L82NFA blades per Goodrich installation drawing 7E1391.
- (2) Model -C504/82NEA and -C505/82NEA blades per McCauley assembly drawing E-5186.
- (3) Model -C511/82NEA and -C512/82NEA blades per McCauley assembly drawing E-5358.
- (4) Model 82NEB or L82NEB blades per McCauley assembly drawing E-5203.
- (5) Model 80VMF blades per McCauley assembly drawing E-6312, and deice installation drawing D-40486.
- (6) Model 3AF32C515/82NLA per McCauley assembly drawing E-5186 and deice installation drawing C-40219.
- (7) Model 3AF37C516/90LFB per McCauley assembly drawing E-7110.
- (8) Model 3AF37C510/90LFB per McCauley assembly drawing E-7272.
- (9) Model 3AF32C524/90UMB per McCauley assembly drawing E-7549.
- (10) Model 3AF36C525/80VMF[X] per McCauley assembly drawing E-7507.
- (11) Model B3DF36C526/80HJ[X] per McCauley assembly drawing E-7527.
- (12) Model B3DF36C527/L80HJ[X] per McCauley assembly drawing E-7528.
- (13) Model 3AF32C528/82NE[X] per McCauley assembly drawing E-7552.

b. Propeller Spinners

- (1) Model 3AF34C502/80HA or 3AF34C503/L80HA with plain or electric deice spinner; reference D-4986 Dome, D-4984 Bulkhead and D-4987 Installation.
- (2) Model 3AF32C504/82NEA or 3AF32C505/NEA with plain or electric deice spinner; reference D-3651 Dome, D-3925 Bulkhead and D-4042 Installation.
- (3) Model 3AF32C506/82NEB or 3AF32C507/L82NEB with plain or electric deice spinner; reference D-5285 Dome, D-5274 Bulkhead and D-5275 Installation.
- (4) Model 3AF32C508/82NFA or 3AF32C509/L82NFA with plain or electric deice spinner; reference D-4986 Dome, D-4984 Bulkhead and D-4987 Installation.
- (5) Model 3AF32C511/82NEA with plain or electric deice spinner; reference D-5370 Dome, D-5371-2 Bulkhead and D-5311 Installation.

- (6) Model 3AF32C512/82NEA with plain or electric deice or liquid anti-ice spinner; reference D-5370 Dome, D-5499-1 and -3 Bulkhead and D-5309 and D-5310 Installation.
- (7) Model 3AF36C514/80VMFA with plain or electric deicing spinner; reference E-6190 Dome, E-6178 Bulkhead and D-6176 Installation.
- (8) Model 3AF32C515/82NLA with electric deice spinner; reference D-5215 Installation.
- (9) Model 3AF37C516/90LFB per assembly drawing E-7110.
- (10) Model 3AF37C510/90LFB per assembly drawing E-7272.
- (11) Model 3AF32C522/82NJA per assembly drawing E-7315.
- (12) Model 3AF32C523/L82NJA per assembly drawing E-7316.
- (13) Model 3AF32C524/90UMB per assembly drawing E-7549.
- (14) Model 3AF36C525/80VMF[X] per assembly drawing E-7507.
- (15) Model B3DF36C526/80HJ[X] per assembly drawing E-7527.
- (16) Model B3DF36C527/L80HJ[X] per assembly drawing E-7528.
- (17) Model 3AF32C528/82NE[X] per assembly drawing E-7552.

NOTE 8. Not applicable.

NOTE 9. Not applicable.

NOTE 10. Special Notes. Aircraft installation must be approved as part of the aircraft type certificate upon compliance with the applicable aircraft airworthiness requirements.

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